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(54) THIN ORGANIC FILM EL ELEMENT

(57) Abstract:

PURPOSE: To conduct low voltage drive and enhance durability by providing at least one inclined structure layer having a concentration gradient in a component between respective layers of an EL element provided with organic compound layers between two electrodes.

CONSTITUTION: A transparent positive electrode 2 comprising a vapor deposition thin film of a metal such as gold, platinum, palladium and the like or an oxide film of tin, indium-tin and the like is formed on a glass substrate 1. Between a compound layer 3 having an electron hole transport function and an electron transporting organic compound layer 4 having a light emission function both formed thereon, an inclined structure layer 8 having a concentration gradient wherein components of both the layers are continuously varied is provided. A negative electrode 7 is formed by vapor deposition of a metal having a little work function or of this metal together with another stable metal. Between the layer 4 and the negative electrode 7 an inclined structure layer 9 of components of both layers can be provided.

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